

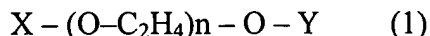
AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1-10. (Cancelled)

11. (New): A lithium cell comprising a positive electrode, a negative electrode having lithium, a separator interposed between the positive electrode and the negative electrode, and a non-aqueous electrolytic solution containing a solute and a non-aqueous solvent, wherein:

the non-aqueous solvent has one or more than one compound represented by the following general formula (1), the one or more than one compound being a main component of the non-aqueous solvent, and the main component being 97% to less than 100% in volume of the non-aqueous solvent,



(where X and Y are independently a methyl group or an ethyl group, and n is 2 or 3);

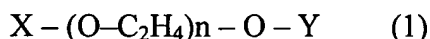
the separator has a melting point of higher than 185°C; and

the non-aqueous solvent includes cyclic ester carbonate or cyclic lactone, the cyclic ester carbonate or the cyclic lactone being a subsidiary component.

12. (New): A lithium cell comprising a positive electrode, a negative electrode having lithium, a separator interposed between the positive electrode and the negative electrode, and a non-aqueous electrolytic solution containing a solute and a non-aqueous solvent, wherein:

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the non-aqueous solvent has one or more than one compound represented by the following general formula (1), the one or more than one compound being a main component of the non-aqueous solvent, and the main component being 90% to less than 100% in volume of the non-aqueous solvent,



(where X and Y are independently a methyl group or an ethyl group, and n is 2 or 3);

the separator has a melting point of higher than 185°C; and

the non-aqueous solvent includes propylene carbonate, the propylene carbonate being a subsidiary component.

13. (New): The lithium cell according to claim 11, wherein the cyclic ester carbonate is propylene carbonate.

14. (New): The lithium cell according to claim 11, wherein the solute is lithium bis (trifluoromethanesulfonyl) imide or lithium bis (pentafluoroethanesulfonyl) imide.

15. (New): The lithium cell according to claim 12, wherein the solute is lithium bis (trifluoromethanesulfonyl) imide or lithium bis (pentafluoroethanesulfonyl) imide.

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16. (New): The lithium cell according to claim 11, wherein the positive electrode includes a manganese oxide.

17. (New): The lithium cell according to claim 12, wherein the positive electrode includes a manganese oxide.

18. (New): The lithium cell according to claim 16, wherein the manganese oxide is a spinel type lithium manganese oxide.

19. (New): The lithium cell according to claim 17, wherein the manganese oxide is a spinel type lithium manganese oxide.

20. (New): The lithium cell according to claim 11, wherein the cell comprises:
a cell outer housing can encasing the positive electrode, the negative electrode, the separator and a non-aqueous electrolytic solution;
a cap;
an insulating gasket that insulates between the cell outer housing can and the cap,
wherein:
the insulating gasket has a melting temperature more than 185°C.

21. (New): The lithium cell according to claim 12, wherein the cell comprises:

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a cell outer housing can encasing the positive electrode, the negative electrode, the separator and a non-aqueous electrolytic solution;

a cap

an insulating gasket that insulates between the cell outer housing can and the cap,

wherein:

the insulating gasket has a melting temperature more than 185°C.

22. (New): The lithium cell according to claim 11, wherein the negative electrode comprises a lithium-aluminum alloy.

23. (New): The lithium cell according to claim 12, wherein the negative electrode comprises a lithium-aluminum alloy.

24. (New): The lithium cell according to claim 22, wherein the cell comprises:

a cell outer housing can encasing the positive electrode, the negative electrode, the separator and a non-aqueous electrolytic solution;

a cap;

an insulating gasket that insulates between the cell outer housing can and the cap,

wherein:

the insulating gasket has a melting temperature more than 185°C.

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25. (New): The lithium cell according to claim 23, wherein the cell comprises:

- a cell outer encasing the positive electrode, the negative electrode, the separator and a non-aqueous electrolytic solution;
- a cap;
- an insulating gasket that insulates between the cell outer housing can and the cap,

wherein:

- the insulating gasket has a melting temperature more than 185°C.

26. (New): The lithium cell according to claim 24, wherein the inner surface of the cap comprises aluminum.

27. (New): The lithium cell according to claim 25, wherein the inner surface of the cap comprises aluminum.